## **Amendment to the Claims**

This listing of claims will replace all prior versions, and listings, of claims in the application:

## Listing of Claims

- 1-95. (canceled)
- 96. (currently amended) A producer vector comprising (a) one or more components of a plant tobacco mosaic virus; and (b) a polynucleotide of interest, wherein the vector is defective for cell-to-cell movement or systemic movement, and wherein the vector comprises at least one polynucleotide encoding a replicase protein of a plant virus and comprises sufficient non-coding portions to allow self-replication.
- 97. (currently amended) The producer vector of claim 96 or 107, wherein the vector is defective for both cell-to-cell movement and systemic movement.
- 98. (previously presented) A method of expressing a polynucleotide of interest comprising:
  - (a) introducing the vector of claim 97 into a plant or plant cell;
  - (b) maintaining the plant cell or plant cell under conditions and for a time sufficient that the polynucleotide is expressed.
- 99. (previously presented) The method of claim 98, wherein the polynucleotide encodes a pharmaceutical protein of interest.
- 100. (currently amended) The method of claim 98, wherein the method comprises steps of:
  - (c) (a) introducing a second vector into the plant or plant cell, wherein the second vector, or both, comprises a gene that encodes a replicase protein;
  - (d)-(b) maintaining the plant or plant cell under conditions and for a time sufficient that the polynucleotide is expressed in at least some plant cells.
- 101. (currently amended) The method of claim 100, wherein the second vector comprises a polynucleotide of interest, the method comprising steps of:
  - (e) maintaining the plant or plant cell under conditions and for a time sufficient that the polynucleotide of the second vector is expressed in at least some plant cells.
- 102. (previously presented) The method of claim 101, wherein the second vector comprises a

- gene that encodes a replicase protein.
- 103. (previously presented) The method of claim 100, wherein the first and second polypeptides are polypeptide chains of a multimeric protein.
- 104. (currently amended) The method of claim 103, wherein the first and second polypeptides encode therapeutically active proteins-of pharmaceutical interest.
- 105. (currently amended) The producer vector of claim 96 or 107, wherein the polynucleotide of interest encodes a pharmaceutical protein of interest.
- 106. (currently amended) A method of expressing a polynucleotide of interest comprising:
  - (a) introducing the vector of claim 96 or 107 into a plant cell;
  - (b) maintaining the plant cell under conditions and for a time sufficient that the polynucleotide is expressed.
- 107. (new) A producer vector comprising (a) one or more components of an alfalfa mosaic virus; and (b) a polynucleotide of interest, wherein the vector is defective for cell-to-cell movement or systemic movement, and wherein the vector comprises at least one polynucleotide encoding a replicase protein of a plant virus and comprises sufficient non-coding portions to allow self-replication.